

What Is Claimed Is:

1. In a pressurized dispensing container, the axially actuated valve assembly improvement adapted to dispense a viscous or lumpy or fibrous product comprising:

5 a valve having a valve stem with a wall defining a main passageway having an axis,

two and only two dispensing openings through said wall of said valve stem, said openings being circumferentially opposed to each other,

10 said valve having a normal sealing state and a dispensing state,

a dispensing actuator coupled to said valve to actuate said valve in a direction along said axis from said normal sealing state to said dispensing state,

15 both of said openings being in communication with the material to be dispensed within the container when in said dispensing state.

2. The improvement of claim 1 wherein: the arc of each of said openings in said valve stem is between 90° and 130°.

3. The improvement of claim 1 wherein: the sum of said areas of said two dispensing openings is approximately equal to the cross-sectional area of said stem passageway adjacent to said openings.

4. The improvement of claim 1 wherein: the segment of said valve stem wall between said dispensing openings is thicker than the portion of said valve stem wall above said dispensing openings.

5. The improvement of claim 2 wherein: the sum of said areas of said two dispensing openings is approximately equal to the cross-sectional area of said stem passageway adjacent to said openings.

6. The improvement of claim 2 wherein: the segment of said valve stem wall between said dispensing openings is thicker than the portion of said valve stem wall above said dispensing openings.

7. The improvement of claim 3 wherein: the segment of said valve stem wall between said dispensing openings is thicker than the portion of said valve stem wall above said dispensing openings.

8. The improvement of claim 1 further comprising:
a valve seat extending radially outward
from the bottom of the valve stem, said seat having a
diameter no greater than approximately 370 mils.

9. The improvement of claim 2 further comprising:
a valve seat extending radially outward
from the bottom of the valve stem, said seat having a
diameter no greater than approximately 370 mils.

10. The improvement of claim 7 further comprising:
a valve seat extending radially outward
from the bottom of the valve stem, said seat having a
diameter no greater than approximately 370 mils.

11. The valve assembly improvement of claim 1
wherein:

said dispensing actuator is a nozzle fitted
over said valve, said nozzle having a dispensing tip
5 adapted to fit the valve stem of a tire, axial pressure
on said dispensing tip depressing said nozzle and said
valve to dispense the fiber containing composition in the
container.

12. The valve assembly improvement of claim 2
wherein:

said dispensing actuator is a nozzle
fitted over said valve, said nozzle having a dispensing
5 tip adapted to fit the valve stem of a tire, axial
pressure on said dispensing tip depressing said nozzle
and said valve to dispense the fiber containing
composition in the container.

13. The valve assembly improvement of claim 7
wherein:

said dispensing actuator is a nozzle
fitted over said valve, said nozzle having a dispensing
5 tip adapted to fit the valve stem of a tire, axial
pressure on said dispensing tip depressing said nozzle
and said valve to dispense the fiber containing
composition in the container.

14. The valve assembly improvement of claim 10
wherein:

said dispensing actuator is a nozzle fitted
over said valve, said nozzle having a dispensing tip
5 adapted to fit the valve stem of a tire, axial pressure
on said dispensing tip depressing said nozzle and said
valve to dispense the fiber containing composition in the
container.

15. The method of dispensing a pressurized viscous or lumpy or fiber containing product from a pressurized dispensing container having a dispensing valve comprising the steps of:

5 actuating the valve in an axial direction between a non-dispensing state and a dispensing state wherein, in said dispensing state two and only two circumferentially opposed dispensing openings in the valve stem are in full communication with the product to
10 be dispensed, and

 forcing the product under pressure through said two opposed dispensing openings into the passageway of the valve stem.

16. The dispensing method of claim 15 further comprising the step of:

 providing an arc of between 90° and 130° for each of said dispensing openings in the valve stem.

17. The dispensing method of claim 16 further comprising the step of:

reinforcing the segment of the valve stem wall between said dispensing openings.

18. The dispensing method of claim 17 further comprising the step of:

providing substantial equality between the sum of the areas of said two dispensing openings and the cross-sectional area of the stem passageway adjacent to said openings.

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